



## Colonial Heights

### Water Source Overview

The major water source is purchased water.

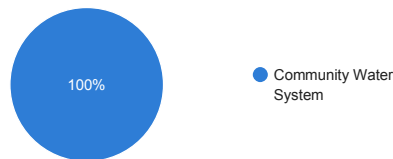
**\*Table 1:** Reported (2010) and projected (2040) water use by system type for Colonial Heights in MGD

Type	Reported Use 2010 MGD	Projected Use 2040 MGD
Community Water System	2.110	2.462

### Water Use by System Type

There are no reported users of private groundwater wells for residential water supply. All tables and graphs represent reported water use including Sales to other localities, if applicable.

**\*Figure 1:** Percentage of reported water use by system type in 2010 (No use data shown on graph if less than .01 MGD: Refer to Table 1)



**\*Figure 2:** Disaggregated water use percentages for Community Water Systems in 2010 (No graph shown if no disaggregated use data reported)

**\*Table 2:** Reported (2010) and projected (2040) groundwater and surface water use for Colonial Heights in MGD

Reported 2010 Groundwater Use (MGD)	Reported 2010 Surface Water Use (MGD)	Projected 2040 Groundwater Use (MGD)	Projected 2040 Surface Water Use (MGD)
0.00	2.11	0.00	2.46

**\*Figure 3:** Colonial Heights highlighted in the Commonwealth of Virginia



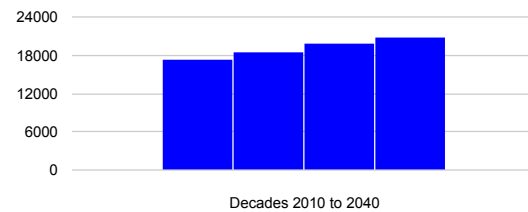
### Projected Water Demand

Population and demand are projected to increase through the planning period. The City anticipates a peak day deficit of 0.1 MGD by 2020 and the Appomattox River Water Authority (main supplier of water to the City of Colonial Heights) anticipates a system-wide deficit of 9.4 MGD by the year 2040. Possible alternatives listed in the water supply plan include: increases in current water supply allocations and the development of additional supplies (groundwater sources, new intake on the Appomattox River, and a new surface water reservoir).

**\*Table 3:** Colonial Heights population projections by decade from 2010 to 2040 (data gathered from VEC projections - 05/20/13)

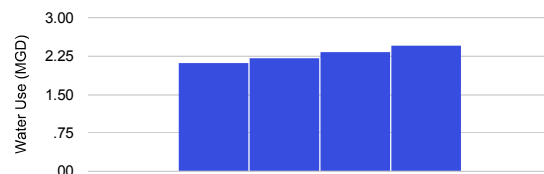
2010	2020	2030	2040	% Change (2010-2040)
17,411	18,620	19,855	20,960	17.6%

**\*Figure 4:** Colonial Heights population projections by decade for 2010, 2020, 2030 & 2040



**\*Table 4 & Figure 5:** Colonial Heights water demand trends by decade for 2010, 2020, 2030 & 2040 in MGD

Reported Use 2010 MGD	Projected Use 2020 MGD	Projected Use 2030 MGD	Projected Use 2040 MGD	Percent Change (2010- 2040)
2.11	2.23	2.34	2.46	16.7%



### Drought Management Practices

The city adopted an ordinance for the implementation and enforcement of the Drought Response and Contingency Plan. (Appomattox River Water Authority and the City of Hopewell Regional WSP)